

Notice of Allowability

Application No.

10/660,549

Examiner

Andrew Wendell

Applicant(s)

SALOKANNEL ET AL.

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/7/2007.
2. ☒ The allowed claim(s) is/are 1-52.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Hoel on 1/31/2008.

The application has been amended as follows: Regarding claim 1, line 4, remove "UWB" and insert -- ultra wideband (UWB) --.

Regarding claim 1, line 6, remove "UWB" and insert -- ultra wideband (UWB) --.

Regarding claim 1, line 4, remove "UWB" and insert -- ultra wideband (UWB) --.

Regarding claim 14, line 7, remove "UWB" and insert -- ultra wideband (UWB) --.

Regarding claim 14, line 10, remove "UWB" and insert -- ultra wideband (UWB) --.

Regarding claim 25, line 5, remove "UWB" and insert -- ultra wideband (UWB) --.

Regarding claim 25, line 8, remove "UWB" and insert -- ultra wideband (UWB) --.

Regarding claim 26, line 7, remove "UWB" and insert -- ultra wideband (UWB) --.

Regarding claim 26, line 10, remove "UWB" and insert -- ultra wideband (UWB) --.

Regarding claim 27, line 5, remove "arranging the first wireless communications link to communicate payload data; and" and insert -- arranging the first wireless

communications link to communicate payload data, wherein the first communication link is an ultra wide band transmission link; and --.

Regarding claim 27, line 9, remove "arranging the second wireless communications link to communicate error control data of" and insert -- arranging the second wireless communications link, which is different from the first communications link, to communicate error control data of --.

Regarding claim 37, line 7, remove "UWB" and insert -- ultra wideband (UWB) --.

Regarding claim 37, line 8, remove "UWB" and insert -- ultra wideband (UWB) --.

Regarding claim 42, line 3, remove "communications link; and" and insert -- communications link, wherein the first communication link is an ultra wide band transmission link; and --.

Regarding claim 42, lines 5-6, remove "communications link via a second communications link which does not communicate payload data," and insert -- communications link via a second communications link, which is different from the first communications link and does not communicate payload data, --.

Regarding claim 43, lines 2 and 3, remove "a first communications module for receiving payload transmission via a first communications link; and" and insert -- a first communications module for receiving payload transmission via a first communications link, wherein the first communication link is an ultra wide band transmission link; and --.

Regarding claim 43, line 4, remove "communications link via a second communications link without transmitting payload data," and insert -- communications

link via a second communications link, which is different from the first communications link and does not communicate payload data, --.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: Regarding claim 1, the prior art of record, Wynbeek (US 2003/0032422) teaches providing a first wireless communications link 208 and 228 (Fig. 2, Ultra Wideband); providing a second wireless communications link 207 and 223 (Fig. 2, carrier wave); wherein the first wireless communications link is a ultra wideband transmission link for transmitting payload data (Sections 0017 and 0022) and the second wireless communications link is a different type of wireless communications link (Section 0015, carrier wave).

Sudo (US 7,269,774) teaches a link for communicating error control data 121 (Fig. 1 and Col. 2 lines 15-27) without communicating payload data (Sudo is silent about communicating payload data which for communicating error control data (Col. 4 line 26-Col. 7 line 11) there should be no payload data and therefore Sudo reads on the claim limitation).

Batra teaches an ultra wideband transmission link for transmitting payload data (Section 0022).

The prior art of record fails to teach a method, comprising providing a first wireless communications link; providing a second wireless communications link; wherein the first wireless communications link is a ultra wideband transmission link for transmitting payload data, and the second wireless communications link is a different

type of wireless communications link for communication error control data for the ultra wideband transmission link without communicating payload data.

Wynbeek, Sudo, and Batra teach the claimed limitations, however, the examiner believes that one of ordinary skill in the art would not be motivated to combine these references together.

Further, remarks filed on 10/1/2007 further states reasons for allowance.

The prior art of record fails to teach the claimed subject matter as claimed and substantially connected in claims 1-13, 32, and 44.

Regarding claim 14, Wynbeek teaches a first communications module for performing wireless communications via a first communications link 208 and 228 (Fig. 2, Ultra Wideband); second communications module for performing wireless communications via a second communications link 207 and 223 (Fig. 2, carrier wave); wherein the first wireless communications link is a ultra wideband transmission link for communicating data at very high data transfer rates (Sections 0017 and 0022) and the second wireless communications link is a different type of wireless communications link (Section 0015, carrier wave).

Sudo teaches a link for communicating error control data 121 (Fig. 1 and Col. 2 lines 15-27) without communicating payload data (Sudo is silent about communicating payload data which for communicating error control data (Col. 4 line 26-Col. 7 line 11) there should be no payload data and therefore Sudo reads on the claim limitation).

Batra teaches a UWB transmission link for transmitting payload data (Section 0022).

The prior art of record fails to teach a system comprising first communications module for performing wireless communications via a first communications link; second communications module for performing wireless communications via a second communications link; wherein the first wireless communications link is a ultra wideband transmission link for communicating data at very high data transfer rates and the second wireless communications link is a different type of wireless communications link for communicating error control data for the ultra wideband transmission link without communicating payload data.

Wynbeek, Sudo, and Batra teach the claimed limitations, however, the examiner believes that one of ordinary skill in the art would not be motivated to combine these references together.

Further, remarks filed on 10/1/2007 further states reasons for allowance.

The prior art of record fails to teach the claimed subject matter as claimed and substantially connected in claims 14-24, 33, 45, and 52.

Regarding claim 25, system claim 25 is allowed for the same reason as claims 1 and 14 since the recited elements would perform the claimed steps.

The prior art of record fails to teach the claimed subject matter as claimed and substantially connected in claims 25, 34, and 46.

Regarding claim 26, method claim 26 is allowed for the same reason as claims 1 and 14 since the recited elements would perform the claimed steps.

The prior art of record fails to teach the claimed subject matter as claimed and substantially connected in claims 26, 35, and 47.

Regarding claim 27, method claim 27 is allowed for the same reason as claims 1 and 14 since the recited elements would perform the claimed steps.

The prior art of record fails to teach the claimed subject matter as claimed and substantially connected in claims 27-31, 36, and 48.

Regarding claim 37, apparatus claim 37 is allowed for the same reason as claims 1 and 14 since the recited elements would perform the claimed steps.

The prior art of record fails to teach the claimed subject matter as claimed and substantially connected in claims 37-41 and 49.

Regarding claim 42, apparatus claim 42 is allowed for the same reason as claims 1 and 14 since the recited elements would perform the claimed steps.

The prior art of record fails to teach the claimed subject matter as claimed and substantially connected in claims 42 and 50.

Regarding claim 43, apparatus claim 43 is allowed for the same reason as claims 1 and 14 since the recited elements would perform the claimed steps.

The prior art of record fails to teach the claimed subject matter as claimed and substantially connected in claims 43 and 51.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Dabak discloses a multi-carrier transmitter for ultra-wideband systems. Fullerton discloses a full duplex ultrawide-band communication system and method. Runkle discloses a method and system for performing ranging functions in an ultrawide bandwidth system. Beckmann discloses a method of transmitting data in a communication system. Reiner discloses a network session re-construction. Okajima discloses a communication system and transmission station. Komatsu discloses a transmission power control method, base station, mobile station and mobile communication system. Hong discloses an apparatus and method for changing signal mapping rule in a hybrid automatic repeat request system. Ohkubo discloses a multicast signal transmission power control method and base station using the same.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Wendell whose telephone number is 571-272-0557. The examiner can normally be reached on 7:30-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Andrew Wendell
Examiner
Art Unit 2618

1/31/2008


NAY MAUNG
SUPERVISORY PATENT EXAMINER